

U	1	Document ID	Issue Date	Pages	Title	Current OR	Current XRef	Retrieval Classif
	<input type="checkbox"/>	US 6040497 A	20000421	47	Glyphosate resistant maize lines	800/288	536/24.1 ; 800/266 ; 800/275 ; 800/278 ; 800/300.1 ; 800/320.1	
	<input type="checkbox"/>	US 6050422 A	20000421	46	Compositions and methods for detection of 2,4-dichlorophenoxyacetic acid and related compounds	435/4	435/174 ; 435/177 ; 435/179 ; 435/180 ; 435/25 ; 435/325 ; 435/348 ; 435/349 ; 435/358 ; 435/365 ; 435/367 ; 435/419 ; 435/42 ; 435/46 ; 435/410 ; 435/822 ; 435/829 ; 435/844	

	Inventor	S	C	P	2	3	4	5
1	Spencer, Michael , et al.	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
2	Crawford, Ronald L. , et al.	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

	Type	L #	Hits	Search Text	DBs	Time Stamp	Comments	Error Definition	Err ors
1	BPS	L1	1	dicamba WITH oxygenase	USPAT	2001/01/09 13:11			0
2	BPS	L2	1	dicamba and oxyg-lase	USPAT	2001/01/09 13:12			0
3	BRS	L3	0	dicamba and (o adj demethylase)	USPAT	2001/01/09 13:13			0
4	BKS	L4	1	dicamba and demethylase	USPAT	2001/01/09 13:13			0

LI ANSWER 1 OF 6 BIOSIS COPYRIGHT 2011 BIOSIS  
 AN 1997184590 BIOSIS  
 DN PREVIEW99795533793  
 TI Cloning of the genes for the **oxygenase** and ferredoxin components  
 of **dicamba** O-demethylase from *Pseudomonas maltophilia*, strain  
 DI-6.  
 AU Herman, P. L.; Wang, X.-Z.; Weeks, D. P.  
 CS Univ. Nebr.-Lincoln, Lincoln, NE 68583 USA  
 SO Abstracts of the General Meeting of the American Society for Microbiology,  
 (1997) Vol. 97, No. 6, pp. 122.  
 Meeting Info.: 97th General Meeting of the American Society for  
 Microbiology Miami Beach, Florida, USA May 4-8, 1997  
 ISSN: 1061-1606.  
 DT Conference; Abstract; Conference  
 LA English

LI ANSWER 2 OF 6 BIOSIS COPYRIGHT 2011 BIOSIS  
 AN 1997184597 BIOSIS  
 DN PREVIEW99795533793  
 TI A three-component enzyme system catalyzes the O demethylation of the  
 herbicide dicamba in *Pseudomonas maltophilia* DI-6.  
 AU Wang, X.-Z.; Li, B.; Herman, Patricia L.; Weeks, Donald P. (1)  
 CS Univ. Nebraska-Lincoln, Cent. Biotechnol., N300 Beadle Cent., 1901  
 Vine St., Lincoln, NE 68583-1665 USA  
 SO Applied and Environmental Microbiology, (1997) Vol. 63, No. 4, pp.  
 1623-1626.  
 ISSN: 0093-1240.  
 DT Article  
 LA English

LI ANSWER 3 OF 6 AGRICOLA  
 AN 97123416 AGRICOLA  
 DN 1997123416  
 TI A three-component enzyme system catalyzes the O demethylation of the  
 herbicide dicamba in *Pseudomonas maltophilia* DI-6.  
 AU Wang, X.-Z.; Li, B.; Herman, P.L.; Weeks, D.P.  
 CS University of Nebraska, Lincoln, NE.  
 SO Applied and environmental microbiology, Apr 1997. Vol. 63, No. 4. p.  
 1623-1626  
 Publisher: Washington : American Society for Microbiology  
 CODEN: AEMIDF; ISSN: 0099-2240  
 NTE Includes references  
 DT Distribution of Abstracts; United States  
 DT Article  
 DT U.S. Imprints not USDA, Experiment or Extension  
 LA English

LI ANSWER 4 OF 6 EMBASE COPYRIGHT 2001 ELSEVIER SCI. B.V.  
 AN 97123416 EMBASE  
 DN 1997123416  
 TI A three-component enzyme system catalyzes the O demethylation of the  
 herbicide dicamba in *Pseudomonas maltophilia* DI-6.  
 AU Wang X.-Z.; Li, B.; Herman P.L.; Weeks D.P.  
 CS D.S. Weeks, Center for Biotechnology, N300 Beadle Center, University of  
 Nebraska, 1901 Vine St., Lincoln, NE 68583-0665, United States.  
 E-mail: klee001@unl.edu  
 SO Applied and Environmental Microbiology, (1997) 63/4 (1623-1626).  
 E-Is: 11  
 ISSN: 0099-2240 CODEN: AEMIDF  
 CY United States  
 DT Journal; Article  
 EC 004 Microbiology  
 LA English  
 SL English

L1 ANSWER 5 OF 6 CAPLUS COPYRIGHT 2001 ACS  
 AN 1998:683512 CAPLUS  
 DN 1:9:299041  
 TI *Pseudomonas* dicamba O-methylase and cDNA and transgenic dicamba-resistant plants  
 IN Weeks, Donald P.; Wang, Xiao-Zhou; Herman, Patricia L.  
 PA USA  
 SO PCT Int. Appl., 69 pp.  
 CODEN: PINKP2  
 DT Patent  
 LA English  
 EFN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
FI	WO 9848424	A1	19981019	WO 1998-06689	19980403
	EP 1812357 A: AU, AX, AT, AU, AC, BA, BP, BG, BR, BY, CA, CH, CN, CU, DE, DK, EE, ES, FI, GE, GR, GM, GW, HU, IL, IN, JP, KR, KS, KP, KR, KZ, LC, LF, LR, LS, LT, LU, LV, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, UA, UG, UZ, VN, YU, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM, RW: CH, GM, KE, LS, MW, SD, SZ, UG, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI, CM, CA, GN, ML, NE, NE, SN, TD, TG				
	EP 1812357	A1	20000628	EP 1998-915256	19980403
	A: AC, BE, CH, DE, ES, FR, GB, GR, IT, LI, NL, PT				
	NO 9811791	A	19991111	NO 1998-4798	19981111
FRAI	FR 1997-41866		19970414		
	FR 1997-41841		19970414		
	WO 1998-06689		19980403		

L1 ANSWER 6 OF 6 CAPLUS COPYRIGHT 2001 ACS  
 AN 1997:241817 CAPLUS  
 DN 1:6:513953  
 TI A three-component enzyme system catalyzes the O demethylation of the herbicide dicamba in *Pseudomonas maltophilia* M-3  
 AU Wang, Xiao-Zhou; Li, Bin; Herman, Patricia L.; Weeks, Donald P.  
 CS Dep. Biochem., Univ. Nebraska-Lincoln, Lincoln, NE, 68588-0665, USA  
 SO Appl. Environ. Microbiol. (1997), 63(4), 1623-1626  
 CODEN: AEMIDF; ISSN: 0099-2240  
 PB American Society for Microbiology  
 DT Journal  
 LA English

L3 ANSWER 1 OF 11 BIOSIS COPYRIGHT 2001 BIOSIS  
 AN 2000:387540 BIOSIS  
 EN PFEV19000:387540  
 TI Purification and characterization of **dicamba** O-  
**demethylase** from *Clostridium thermacetivum*.  
 AU Haidu, D. G. (1); Eagsdale, J. W. (1)  
 CS (1) University of Nebraska, Lincoln, NE USA  
 SO Abstracts of the General Meeting of the American Society for Microbiology,  
 1999, Vol. 10, pp. 432, print.  
 Meeting Info.: 10th General Meeting of the American Society for  
 Microbiology Los Angeles, California, USA May 21-25, 2000 American Society  
 for Microbiology  
 . ISSN: 1060-2011.  
 DT Conference  
 LA English  
 SL English

L3 ANSWER 2 OF 11 CAPLUS COPYRIGHT 2001 ACS  
 AN 1999:041110 CAPLUS  
 EN 1999:099041  
 TI *Pseudomonas* **dicamba** O-methylase and cDNA and transgenic  
**dicamba**-resistant plants  
 AU Weeks, Donald P.; Wang, Xiao-Shuo; Herman, Patricia L.  
 EA USA  
 SO PCT Int. Appl., 60 pp.  
 CODEN: PUSCND  
 DT Patent  
 LA English  
 PAN.CNT 1

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
EP 1013337	A1	19991013	EP 1998-913256	19980403
NO 990470	A	19991001	NO 1999-4793	19991001
US 1997-41660		19970404		
US 1997-41941		19970404		
WO 1996-US6589		19980403		

W: AU, AM, AT, AU, AC, BA, BB, BG, BR, BY, CA, CH, CN, CU, CZ, DE,  
 DK, EE, ES, FI, FR, GE, GH, GM, GW, HU, ID, IL, IS, JP, KE, KG,  
 KP, KR, KZ, LC, LY, LR, LS, LT, LU, LV, MD, MG, MK, MN, MW, MX,  
 NA, NG, NI, NO, NZ, OM, PA, PE, PG, PH, PL, PT, RO, RU, SD, SE,  
 SG, SI, SK, SL, TH, TR, TT, UA, UG, UZ, VN, YU, ZW, AM, AZ, BY, KG,  
 KZ, MD, RU, TC, TM  
 BW: GB, GR, HE, LS, MK, TD, SZ, DE, ZW, AT, BE, CH, CY, DE, DK, ES,  
 FI, FR, GE, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI,  
 CM, CA, CH, ML, NE, NG, SN, TD, TG  
 EP 1998-913256 19980403  
 R: AT, BE, CH, DE, ES, FR, GB, GR, IT, LI, NL, PT  
 NO 1999-4793 19991001  
 PPAI US 1997-41660 19970404  
 US 1997-41941 19970404  
 WO 1996-US6589 19980403

L3 ANSWER 3 OF 11 BIOSIS COPYRIGHT 2001 BIOSIS DUPLICATE 1  
 AN 1997:107900 BIOSIS  
 EN PFEV19079:107900  
 TI A three-component enzyme system catalyzes the O demethylation of the  
 herbicide **dicamba** in *Pseudomonas maltophilia* DI-6.  
 AU Wang, Xiao-Shuo; Li, Bin; Herman, Patricia L.; Weeks, Donald P. (1)  
 CS (1) Univ. Nebraska-Lincoln, Cent. Biotechnol., N300 Beadle Cent., 1901  
 Vine St., Lincoln, NE 68583-0665 USA  
 SO Applied and Environmental Microbiology, (1997) Vol. 63, No. 4, pp.  
 1023-1026.  
 ISSN: 0090-2104.  
 DT Article  
 LA English

L3 ANSWER 4 OF 11 BIOSIS COPYRIGHT 2001 BIOSIS  
 AN 1997:107400 BIOSIS  
 EN PFEV19079:107400  
 TI Cloning of the genes for the oxygenase and ferredoxin components of

**dicamba 0-demethylase** from *Pseudomonas maltophilia*, strain D.-6.

AB Herman, P. L.; Wang, X.-Z.; Weeks, D. P.  
 CS Univ. Nebraska-Lincoln, Lincoln, NE 68588 USA  
 SO Abstracts of the General Meeting of the American Society for Microbiology, (1997) Vol. 97, No. 0, pp. 322.  
 Meeting Info.: 95th General Meeting of the American Society for Microbiology Miami Beach, Florida, USA May 4-8, 1997  
 ISSN: 1090-2911.  
 DT Conference; Abstract; Conference  
 LA English

1- ANSWER 1 OF 11 BIOSIS COPYRIGHT 2001 BIOSIS      DUPLICATE 2  
 AN 1994:10004 BIOSIS  
 DN PFEV1994000004  
 TI Engineering **dicamba** selectivity in crops: A search for appropriate degradative enzyme(s).  
 AU Subramanian, M. V. (1); Tacey, J.; Patel, B.; Jensen, P. J.  
 CS (1) Sandoz Agro Inc., Research Div., 975 California Ave., Palo Alto, CA 94304-1109 USA  
 SO Journal of Industrial Microbiology & Biotechnology, (Nov.-Dec., 1995) Vol. 16, No. 6, pp. 344-349.  
 DT Article  
 LA English

2- ANSWER 6 OF 11 BIOSIS COPYRIGHT 2001 BIOSIS  
 AN 1995:27119 BIOSIS  
 DN PFEV19950001619  
 TI **Dicamba 0-demethylase** from *Pseudomonas maltophilia*, strain D.-6: A three-component enzyme.  
 AU Wang, X. Z.; Li, B.; Herman, P. L.; Weeks, D. P.  
 CS Univ. Nebraska-Lincoln, Lincoln, NE 68588 USA  
 SO PAGES 149-151, (1995) Vol. 9, No. 6, pp. A149L.  
 Meeting Info.: Annual Meeting of the American Society for Biochemistry and Molecular Biology San Francisco, California, USA May 21-25, 1995  
 ISSN: 0360-0688.  
 DT Conference  
 LA English

3- ANSWER 7 OF 11 BIOSIS COPYRIGHT 2001 BIOSIS  
 AN 1995:10101 BIOSIS  
 DN PFEV19950001011  
 TI A three component 0-**demethylase** enzyme from *Pseudomonas maltophilia* catalyzes the first step in degradation of the herbicide, **dicamba**.  
 AU Wang, Xiao-Zhuo; Li, Bin; Herman, Patricia L.; Weeks, Donald P.  
 CS Univ. Nebraska, Lincoln, NE 68583 USA  
 SO Abstracts of the General Meeting of the American Society for Microbiology, (1995) Vol. 95, No. 0, pp. 341.  
 Meeting Info.: 95th General Meeting of the American Society for Microbiology Washington, D.C., USA May 21-25, 1995  
 ISSN: 1090-2911.  
 DT Conference  
 LA English

4- ANSWER 8 OF 11 BIOSIS COPYRIGHT 2001 BIOSIS      DUPLICATE 3  
 AN 1994:10004 BIOSIS  
 DN PFEV19940001004  
 TI Anaerobic pathway for conversion of the methyl group of aromatic methyl ethers to acetic acid by *Clostridium thermoaceticum*.  
 AU Kasmi, Asma El; Rajasekharan, Sumathi; Raysdale, Stephen W. (1)  
 CS (1) Dep. Biochem., East Campus, Univ. Nebraska, Lincoln, NE 68583-0018 USA  
 SO Biochemistry, (1994) Vol. 33, No. 37, pp. 11217-11224.  
 ISSN: 0006-2960.  
 DT Article  
 LA English

5- ANSWER 9 OF 11 BIOSIS COPYRIGHT 2001 BIOSIS  
 AN 1994:19197 BIOSIS  
 DN PFEV19940001919

\*TI Characterization of a bacterial system capable of degrading  
dicamba and evaluation of its potential in the development of  
herbicide-tolerant crops.

AD Weeks, Donald P. (1); Wang, Xiao Zhuo (1); Herman, Patricia L. (1); Yang,  
Ju; Hage, David

CS (1) Dep. Biochem., Univ. Nebr., Lincoln, NE 68583-0718 USA

SO Journal of Cellular Biochemistry Supplement, (1994) Vol. 3, No. 18 PART A,  
pp. 91.  
Meeting Info.: Keystone Symposium on Improved Crop and Plant Products  
Through Biotechnology Keystone, Colorado, USA January 6-16, 1994  
ECON: 1993-1999.

DT Conference

LA English

IS ANSWER 14 OF 11 AGRICOLA

AN 1:111547 AGRICOLA

DN IND93066997

TI The effect of structurally divergent herbicides on mouse liver  
xenobiotic-metabolizing enzymes (P-450-dependent mono-oxygenases, epoxide-  
hydrolases and glutathione S-transferases) and carnitine  
acetyltransferase.

AD Hickey, D.A.; Narloch, B.A.; Shull, L.R.; Hammock, B.D.

CS Center for Human Toxicology, Salt Lake City, UT

AN DNAL (FA1193.T62)

SO Toxicology letters, Dec 1991. Vol. 59, No. 1/3. p. 175-185  
Publisher: Amsterdam : Elsevier Science Publishers.  
CODEN: TOLEDS; ISSN: 0378-4274

NTE Includes references.

DT Article

FS Not U.S. Inprint other than FAO

LA English

IS ANSWER 14 OF 11 BIOSIS COPYRIGHT 2001 BIOSIS DUPLICATE 4

AN 1991:12504 BIOSIS

DN BA93:71774

TI THE EFFECT OF STRUCTURALLY DIVERGENT HERBICIDES ON MOUSE LIVER  
XENOBIOTIC-METABOLIZING ENZYMES P-450-DEPENDENT MONOOXYGENASES EPOXIDE  
HYDROLASES AND GLUTATHIONE S-TRANSFERASES AND CARNITINE ACETYLTRANSFERASE.

AD MCCOY D E; NARLOCH B A; SHULL L R; HAMMOCK B D

CS CENT. HUMAN TOXICOL., 417 WAKARA WAY, ROOM 230, SALT LAKE CITY, UTAH  
84103.

SO TOXICOL LETT (AMST), 1991, 59, 1-3, 175-185.  
CODEN: TOLEDS. ISSN: 0378-4274.

FS BA; OLD

LA English

= > d his

(FILE 'HOME' ENTERED AT 11:14:34 ON 09 JAN 2001)

FILE 'BIOSIS, AGRICOLA, ENBASE, CAPLUS' ENTERED AT 13:15:04 ON 09 JAN 2001

L1 6 S DICAMBA (S) OXYGENASE  
L2 11 S DICAMBA AND DEMETHYLASE  
L3 11 DUP FEM L2 (10 DUPLICATES REMOVED)